



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)  
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India



## Centre for Climate Change Division

### Continuing Professional Development Programme

## Optimizing Solid Waste Management for Climate Change Mitigation and Adaptation

10 - 12 June 2026

Interactive Sessions | Digital Learning | Assessments | 24/7 Experts Online/Offline Support

### Introduction

Rapid urbanization, population growth, and changing consumption patterns have significantly increased the generation of solid waste, posing serious environmental and climate challenges. Inefficient waste management practices contribute to greenhouse gas emissions, particularly methane from landfills, thereby accelerating climate change. Integrating sustainable solid waste management practices is essential not only for environmental protection but also for climate change mitigation and adaptation. This programme focuses on modern, climate-responsive waste management strategies, including waste minimization, resource recovery, circular economy approaches, and low-carbon technologies. It aims to equip participants with practical knowledge and tools to design and implement resilient and sustainable solid waste management systems in urban and semi-urban contexts.

### Objectives

The programme aims:

- ✚ To understand the linkages between solid waste management and climate change mitigation and adaptation
- ✚ To enhance knowledge of sustainable and integrated solid waste management practices
- ✚ To introduce climate-resilient and low-carbon waste processing technologies
- ✚ To promote circular economy concepts such as reduce, reuse, recycle, and resource recovery
- ✚ To develop skills for planning, design, and implementation of efficient waste management systems
- ✚ To familiarize participants with policies, regulations, and best management practices in India and globally
- ✚ To explore innovative tools, digital technologies, and case studies in waste management

### Course Coverage

This training program will broadly cover the following key areas:

- ✚ **Fundamentals and Climate Linkages:** Overview of Solid Waste Management (SWM) systems, Sources, types, and characterization of municipal solid waste, Climate change impacts and GHG emissions from waste sector, National policies and rules (SWM Rules 2026), Integrated SWM approach and urban challenges
- ✚ **Technologies and Sustainable Practices:** Waste segregation, collection, and transportation systems, Composting, bio methanation, and waste-to-energy technologies, Landfill management and methane capture techniques, Circular economy and resource recovery approaches, Plastic waste management and emerging recycling technologies
- ✚ **Climate Resilience, Innovation, and Case Studies:** Climate-resilient SWM planning and infrastructure design, Role of GIS, IoT, and AI in smart waste management systems, Life Cycle Assessment (LCA) and carbon footprint analysis, best practices and case studies from Indian and international cities, field insights, and action planning

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

## Methodology

Methodology of the programme includes classroom Sessions with Lectures/discussions, with audio visual aid; bench - marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive, demanding active participation from all the participants.

## Target Participants

This programme is intended for engineers and technical staff from Urban Local Bodies (ULBs), Pollution Control Boards, Water Supply & Sewerage Boards, industrial professionals, environmental consultants, project managers, academicians, researchers, NGOs, and students in environmental engineering and water resources.

## Programme Dates, Timings & Code

**Dates: 10 - 12 June 2026, Timings: 10 AM Onwards. & Code: 8072**

## Course Director

**Dr. K. Chandrakala** Sr. Faculty, Centre for Climate Change      **Dr. Aadhi Naresh**, Faculty, CCC  
**Engineering Staff College of India,**  
Phone: Direct 040 6630 4164/4137, Fax: 040 - 6630 4163,  
Mob: 94948 72533 Email: [ccc@escihyd.org](mailto:ccc@escihyd.org)

## Faculty/Speaker Details

Apart from the core internal faculty, experienced professionals/faculties/sector experts will be delivering the lively lecture with practical knowledge & case study.

## Course Fee

- **Course Fee (Residential): – Rs. 18,500/-** (Rupees Eighteen Thousand Five Hundred only) per participant. Fee includes course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme. ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- **Non-Residential Fee: 10% discount** on course fee is allowed for non-residential participants
- **Group Incentive: 10% discount** for five or more participants, if sponsored by the same Organization

**GST @18%** is to be paid extra over and above the training fee. **PAN Card No. AAATT3439Q. GST No:36AAATT3439Q1ZV, HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad. Alternatively, the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI – **SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT/ RTGS. IFSC Code No. SBIN 0004159 – MICR No.500002075. PAN Card No AAATT3439Q; GSTIN No. 36AAATT3439Q1ZV.** While using EFT method of payment, please ensure to communicate us your company name, Contact details, our invoice reference and programme title.

## Registration

**Online registration** shall be available on ESCI web portal: [www.escihyd.org](http://www.escihyd.org)

**To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no,** telephone and fax number of the participant along with the details of mode of payment of fee, addressed to: **Course Director** (or) **Contact us at: Mr. GNM. Rao (Prog. Manager) – 9866431555.**

**Each participant will receive a Certificate of Participation upon program completion.**